

January 24, 1977

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SUBJECT: Butz Landfill Monitoring - I.D. #100351

Jackson Township

Monroe County

Butz Frederick J. Karl and TCE contamination source is the Regional Solid Waste Director distributed. The flow is overburden contaminated with the exception of relatively unimportant materials.

OWNER: John A. Moser

Geologist

Data from the more important fraction concluded I have reviewed the monitoring of the Butz Landfill including the latest logical samples submitted for November, 1976. The Storm's spring, Bunnell's well, the landia well at Camp Streamside have been monitored by Mr. Butz, or his representatives since January, 1974, and by various members of the Department of Environmental Resources since 1973. In addition, several leachate polluted springs were sampled by D.E.R. staff in 1973 and 1976. The data does not contain a contamination pattern.

The present quality of water at the monitoring points is rather good with respect to drinking water standards. The Storm spring and the Bunnell well showed a marked improvement during the latter half of 1973 with little change since. There appears to have been improvement in the quality of the leachate discharges as wells but due to vague sampling location descriptions I am not sure how comparable the 1973 and 1976 analyses are. Even if the hypothetical drums leaked, this would not affect the water supply system in the landfill. Even if the proposed main problem appears to be that there remains sufficient organic pollution from the landfill to deplete oxygen in the ground water system. This leads to increased solution of iron and manganese in the ground water. When the ground water discharges to the atmosphere the iron and manganese precipitate. These oxygen deficient discharges also may have some odor. The result is that the water appears worse than it actually is.

Practical proposal in the harsh Pocono winter. Even then, the need for a water supply system would not be eliminated. Concentration within the plume would merely be reduced.

The sampling of various springs and wells around the Butz Landfill indicates small little or no health problem related to ground-water quality. There is still some organic pollution apparent which has bad aesthetic effects due to iron supply and manganese precipitation and possibly some odor. Plumes from fracture systems in another aquifer. Water lines should be laid to the affected areas. Recommendations: Rain Road, Batt Road, and Storm Road, Strausser. I recommend the monitoring by Mr. Butz be continued on the twice annually schedule at the three monitoring points through 1978. At that time, a reevaluation should be made as to the need for continued monitoring.

JAM:jr

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